

# Water Audit Level 1 Validation- Validator Review & Certification Statement

## Water System(s) This Audit Covers:

**Public Water System Identification (PWSID)**<sup>1</sup>: CA 1510019      **Water System Name** City of Shafter

<sup>1</sup>List only 1 PWSID which should match the PWSID on the FWAS Instructions Tab. For Special cases where the audit covers multiple water systems connected with permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration.

## **Notes (Provided to Validator by Water System):**

The City operates under three distinct pressures zones with main lines coming from the Core City's groundwater wells.

## Audit Period:

**Validation Date:** 09/23/2021

**Water System Representatives:** Joseph O'Brien

**Sufficient Supporting Documents Provided:** Yes

**Validation Findings & Confirmation Statement:** Findings were sufficient per Title 23

## Key Audit Metrics:

**Data Validity Score:** 55      **Data Validity Band (Level):** 3

**ILI** 0.17

**Real Loss:** 2.51 gal/con/day

**Non-revenue water as percent of cost of operating system:** 0.6

**Apparent Loss:** 6.76 gal/con/day

## **Cerification Statement by Validator:**

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

*If not, rejected recommendations are included here:*

## Validator Information:

**Water Audit Validator:** Marcos Torres

**Validator Qualifications:** Water Audit Validator Certificate issued by the CA-NV Section of the AWWA

# Water Audit Level 1 Validation- Water System Certification Statement

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### **Notes:**

## Water Audit & Water Loss Improvement Steps:

**1. Steps Taken:** Water System to identify steps taken in the preceding 3 years to increase data validity, reduce real loss, and reduce apparent loss as informed by the annual validated water audit:

The City is in the process of installing smart water meters for the un-metered sections of the system.  
On-going well meters and customer meters are being inspected and being replaced as necessary.  
Real and apparent losses can't be accurate until the entire system becomes metered.  
City hopes to be 100% metered by EOY 2023.

**2. Planned Steps (OPTIONAL):** If your audit reflects negative real losses or the cost of non-revenue water is greater than 100% of the operating costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days (23 CCR Section 638.6[a]).

## **Certification Statement by Utility Executive**

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

Michael James

Executive Position

Public Works Director

Signature



Date

09/23/2021

Utility Provided